

What is claimed is:

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1. A miter saw comprising:
 - a base;
 - a table rotatably attached to the base;
 - a saw assembly pivotably connected to the table, said saw assembly
- 5 comprising a rotatable cutting tool, a motor driving the cutting tool, and a housing covering the motor, the cutting tool being pivotably movable about a chopping axis in order to move the cutting tool towards the table for cutting a workpiece, the cutting tool being movable between a first position substantially perpendicular to the table, a second position inclined in a first direction from the first position, and a third position inclined in
- 10 a second direction from the first position, the second direction being opposite to the first direction;
- a first fence assembly disposed on one side of the base, the first fence assembly comprising a first fixed fence associated with the base, and a first movable fence being interconnected with the first fixed fence; and
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 - a second fence assembly disposed on the other side of the base, the second fence assembly comprising a second fixed fence associated with the base, and a second movable fence being interconnected with the second fixed fence.
2. The miter saw of Claim 1, further comprising a handle connected to the housing, the handle being substantially horizontal.
3. The miter saw of Claim 1, wherein the cutting tool defines a plane which intersects the motor.

4. The miter saw of Claim 1, wherein the chopping axis is above the first fence assembly.

5. The miter saw of Claim 1, wherein the saw assembly is movable along a vertical plane substantially perpendicular to the table.

6. The miter saw of Claim 1, further comprising a rail supporting the saw assembly, and a housing pivotably connected to the table and supporting the rail.

7. The miter saw of Claim 6 wherein the housing slidably supports the rail.

8. The miter saw of Claim 1, further comprising a first gap-filling flap pivotably secured to the first movable fence.

9. The miter saw of Claim 8, further comprising a second gap-filling flap pivotably secured to the second movable fence.

10. The miter saw of Claim 1, further comprising first anti-removal means for inhibiting removal of the first movable fence from the first fixed fence.

11. The miter saw of Claim 10, further comprising second anti-removal means for inhibiting removal of the second movable fence from the second fixed fence.

12. The miter saw of Claim 1, further comprising first means for indicating a relative position of the first movable fence in relation to the first fixed fence.

13. The miter saw of Claim 12, further comprising second means for indicating a relative position of the second movable fence in relation to the second fixed fence.

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14. The miter saw of Claim 1, further comprising a first member for releasably holding the first movable fence in a predetermined position in relation to the first fixed fence.

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15. The miter saw of Claim 14, further comprising a second member for releasably holding the second movable fence in a predetermined position in relation to the second fixed fence.

16. The miter saw of Claim 1, wherein the first movable fence includes a first raised portion disposed at one end of the first movable fence, said raised portion coacting with the first fixed fence to align respective front faces of the first fixed fence and the first movable fence.

17. The miter saw of Claim 16, wherein the second movable fence includes a second raised portion disposed at one end of the second movable fence, said raised portion coacting with the second fixed fence to align respective front faces of the second fixed fence and the second movable fence.

18. The miter saw of Claim 1, further comprising a first cam rod disposed between the first fixed fence and the first movable fence, the first cam rod being operable to clamp the first movable fence against the first fixed fence upon rotation of the first cam rod.

19. The miter saw of Claim 18, further comprising a second cam rod disposed between the second fixed fence and the second movable fence, the second cam rod being operable to clamp the second movable fence against the second fixed fence upon rotation of the second cam rod.

20. The miter saw of Claim 1, further comprising a first fixed clamping arrangement operable to clamp the first movable fence to the first fixed fence due to the movement of a single clamping member such that respective faces of the first fixed fence and the first movable fence are maintained in alignment.

21. The miter saw of Claim 20, further comprising a second fixed clamping arrangement operable to clamp the second movable fence to the second fixed fence due to the movement of a single clamping member such that respective faces of the second fixed fence and the second movable fence are maintained in alignment.

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